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the liquid binding  
form a thin film-

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**AMENDED CLAIMS WITH MARKINGS TO SHOW CHANGES**

4. (once amended) Storage element according to [one of claims 1 to 3] claim 1, characterised in that the binding agent (22) is a transparent plastics material with a refractive index of between 1.4 and about 1.6.
5. (once amended) Storage element according to [one of claims 1 to 4] claim 1, characterised in that the refractive index of the material of the storage particles (20) and/or the refractive index of the binding agent (22) is isotropic.
6. (once amended) Storage element according to [one of claims 1 to 5] claim 1, characterised by an anti-reflection coating (14) borne by the front surface of the storage layer (12).
7. (once amended) Storage element according to [one of claims 1 to 6] claim 1, characterised in that the rear side of the storage layer (12) bears an absorbing layer (16) which absorbs the activating light.
8. (once amended) Storage element according to [one of claims 1 to 7] claim 1, characterised in that on the rear side of the storage layer (12) a reflecting layer (16) is provided, which reflects the fluorescent light and is preferably connected firmly to the storage layer (12).
9. (once amended) Storage element according to [one of claims 1 to 8] claim 1.

characterised in that behind the storage layer (12) is arranged a protective layer (18) of material absorbing X-ray beams, in particular a metal layer consisting of a metal with high order number such as lead.

11. (once amended) Storage element according to [one of claims 1 to 10] claim 1, characterised in that the storage layer (12) and/or the anti-reflection coating (14) and/or the absorbing layer (16) and/or the reflecting layer (16) and/or the protective layer (18) form a bendable layered structure.
12. (once amended) Method for producing a storage element according to [one of claims 1 to 11] claim 1, characterised in that binding agent (22) is prepared in the liquid state and the storage particles (20) are dispersed in the liquid binding agent (22), and that the material obtained in this way is dispersed to form a thin film-type layer and the binding agent is then cured.